International application No.

PCT/SE 2005/000054

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/4025,31/155,31/195,C07D207/26,211/98,401/12,403/12, 215/00, A61P 19/00,37/00,21/00
According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

#### IPC7: A61K, C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

### EPO-INTERNAL, WPI DATA, PAJ, STN-CAPLUS

Further documents are listed in the continuation of Box C.

C. DOCU	MENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α .	WO 9963929 A2 (ADVANCED MEDICINE, INC.), 16 December 1999 (16.12.1999), formula I	1-16
	<del></del>	
Ą	WO 9912912 A1 (YUHAN CORPORATION), 18 March 1999 (18.03.1999), formula I	1-16
	<del></del> ·	
A	WO 9316992 A1 (MERRELL DOW PHARMACEUTICALS INC.), 2 Sept 1993 (02.09.1993), formula I	1-16
ĺ	<del></del>	
A	EP 0325397 A1 (YAMANOUCHI PHARMACEUTICAL CO. LTD.), 26 July 1989 (26.07.1989), formula I	1-16
	<del></del>	

See patent family annex.

Form PCT/ISA/210 (second sheet) (January 2004)

International application No.
PCT/SE 2005/000054

		PU1/3E 2005	
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
A	J. Am. Chem. Soc., Volume 117, 1995, James S. Nowick et al, "Molecular Scaffolds. 2. Intramolecular Hydrogen Bonding in 1,2-Diaminoethande Diureas", pages 89-99, whole document	see the	1-16
			,
	,		
	•		
	•		
		•	
			·
			Ì
	·		
	SA/210 (continuation of second sheet) (January 2004)	-	

International application No. PCT/SE 2005/000054

WO	9963929	A2	16/12/1999	AU	764401 B	21/08/2003
NO.	3300323	~~_	10, 12, 1333	AŬ	4426399 A	30/12/1999
				AU	4426699 A	30/12/1999
				ÄÜ	4428899 A	30/12/1999
				AU	4430599 A	30/12/1999
				AU	4543699 A	30/12/1999
				ĂŬ	4543799 A	30/12/1999
				AU	4543899 A	30/12/1999
				ÄÜ	4551699 A	30/12/1999
				AU	4551799 A	30/12/1999
				AU	4551899 A	30/12/1999
				AU	4674599 A	30/12/1999
				ÄÜ	4677199 A	30/12/1999
				AÜ	4677399 A	30/12/1999
				AU	4818099 A	30/12/1999
				CA	2316999 A	16/12/1999
				CA	2318547 A	16/12/1999
				CA	2319080 A	16/12/1999
				CA	2319120 A	16/12/1999
				CA	2319474 A	16/12/1999
				CA	2319477 A	16/12/1999
				CA	2319495 A	16/12/1999
				CA	2319761 A	16/12/1999
				CA	2320241 A	16/12/1999
				CA	2320290 A	16/12/1999
				CA	2321162 A	16/12/1999
				CA	2321166 A	16/12/1999
				CA	2321190 A	16/12/1999
				CA	2321274 A	16/12/1999
				EP	0989857 A	05/04/2000
				EP	1003541 A	31/05/2000
				EP	1005356 A	07/06/2000
				ΕP	1083894 A	21/03/2001
				EP	1083919 A	21/03/2001
				EP ·	1083920 A	21/03/2001
				EP	. 1085845 A	28/03/2001
				EP	1085846 A	28/03/2001
2				EP	1085861 A	28/03/2001
			,	EP	1085891 A	28/03/2001
				EP	1085893 A	28/03/2001
				EP	1086065 A	28/03/2001
				EP	1124528 A	22/08/2001
				EP	1143991 A	17/10/2001
				JP	2002517422 T	18/06/2002
				JP	2002517423 T	18/06/2002
				JP	2002517458 T	18/06/2002
				JP	2002517465 T	18/06/2002
				NZ	505979 A	26/09/2003
				SG	80631 A	22/05/2001
				SG	90053 A	23/07/2002
				SG	106036 A	30/09/2004
			•	US	5888001 A	30/03/1999
•				US	6288234 B	11/09/2001
				US	6355810 B	12/03/2002
				US	6395724 B	28/05/2002

International application No. PCT/SE 2005/000054

							•
WO	9963929	A2	16/12/1999	US	6566509 [		
				US	20020028943	A 07/03/2	
			,	US	20030176670		
				US	20040023290		
				WO	9963937		
				WO WO	9963939 /		
				WO	9963940 <i>I</i> 9963988 <i>I</i>		
				WO	9963994		
				WO	9964032		
				WO	9964033		
				WO	9964037		
				WO	9964047		
				WO	9964048		
				WO	9964049		
				WO	9964051	A 16/12/19	999
				WO	9964054		
				ZA	200004086		
	. •			ZA	200004558		
				ZA	200004559		
	•			AT	198105		
				AU De	4996693 <i>1</i> 69329751 I	A 03/03/19	
				DK	606469		
				EP	0606469	,	
				GR	3035461		
				JP	7503090	,, -	
				NO	941141		
·			·	US	6090726		
WO	9912912	A1	18/03/1999	AU	9005398	A 29/03/1	999
WO	9316992	A1	02/09/1993	AT	165345		
				AU	663925		
				AU	3481893		
				CA	2130360 / 69318136 I	A,C 21/08/19	
				DE EP	0626945		
				SE	0626945		<b>J</b> J4
				ES	2115756		QQQ
				ĪĹ	104780	· -,, -	
				ĴP	3309104		
				JP	7504190	T 11/05/1	
				KR	275843		
				MX	9300836		
		•		NZ	249032		
				US	5359131 /		
				ZA	9301035 /	A 17/09/1	993

International application No. PCT/SE 2005/000054

	EP	0325397	A1	26/07/1989	SE	0325397	T3	
				•	TA	93230	T	15/09/1993
					UA	627439	В	27/08/1992
					AU	2866989	Ā	05/10/1989
					CN	1021819	B.C	18/08/1993
					CN .	1034538		09/08/1989
					DE	68908425		23/12/1993
					DK	22289	-	21/07/1989
					ES			16/11/1994
					HÜ	50116		28/12/1989
					HÜ	207843		28/06/1993
İ					ÏĒ	63207		05/04/1995
		•			ĪĒ	890179		20/07/1989
					JP	1119455	_	14/08/1989
					JP	2117651	_	02/05/1990
1					MX	9203657		31/07/1992
1					ÜS	5091419		25/02/1992
1					ÜS	5166429		24/11/1992
					ÜŠ	5227492	• -	13/07/1993
l					ÜS	5384425		24/01/1995
l						JJUTTLJ		L-7/01/1333

International application No. PCT/SE2005/000054

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: 14-16 because they relate to subject matter not required to be searched by this Authority, namely:  Claims 14-16 relate to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic methods /Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds.
Claims Nos.:     because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

International application No.
PCT/SE 2005/000054

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to novel diurea derivatives that block intracellular signal transduction and thereby inhibit the production of pro-inflammatory cytokines, especially interleukin-2 (IL-2) and/or induce apoptosis in activated T-cells. It further discloses such a compound for use as a medicament, the use of said compound for the manufacturing of a medicament for the treatment of immune disorders which benefit from inhibition of production of IL-2 and other pro-inflammatory cytokines and/or induction of apoptosis in activated T-cells, a pharmaceutical composition comprising said compound and a method of treatment comprising administration of a pharmaceutically effective amount of said compound.

A compound of the general formula I